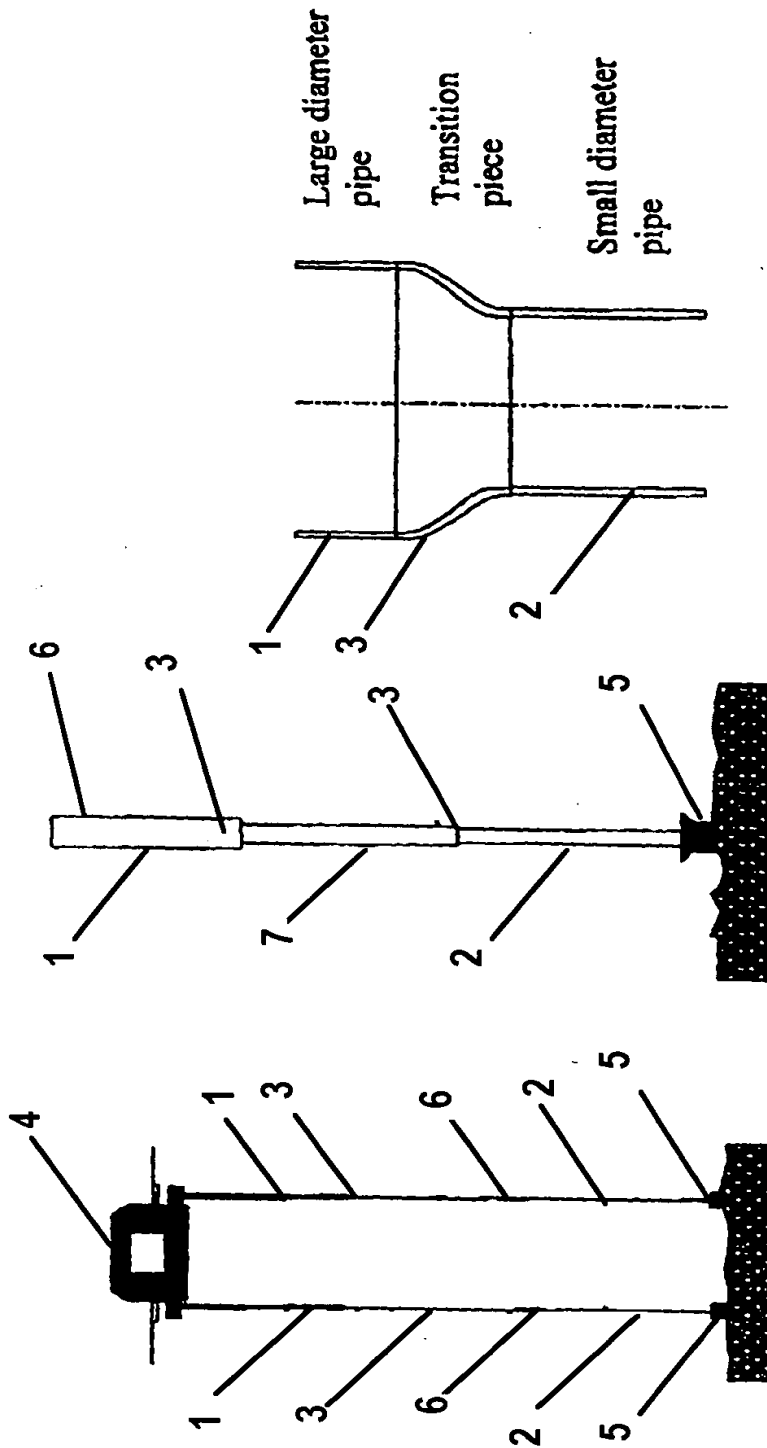
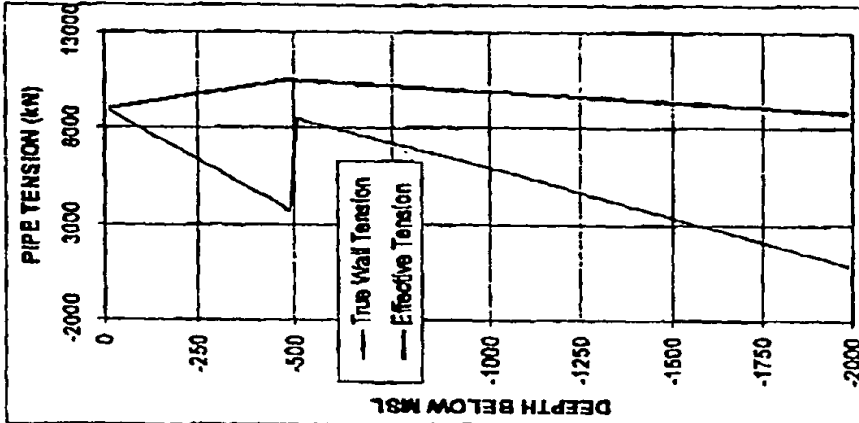


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Stepped Pipe @ 2000m



Uniform Pipe @ 2000m

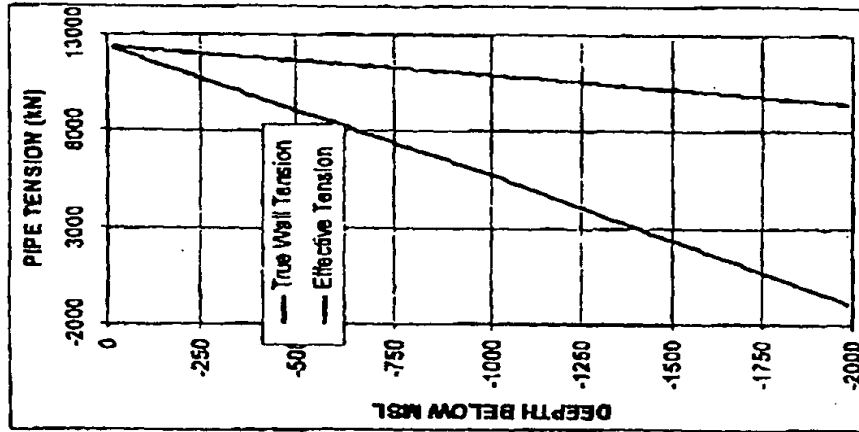


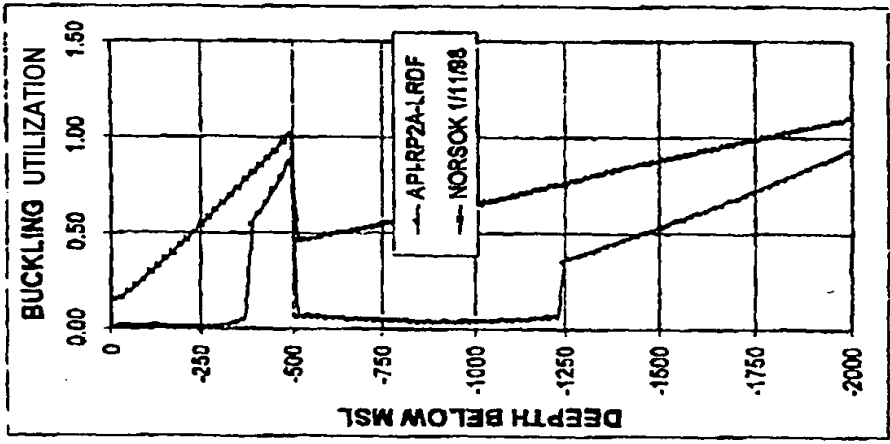
Figure 4 Tether Pipe Tension



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Stepped Pipe @ 2000m



Uniform Pipe @ 2000m

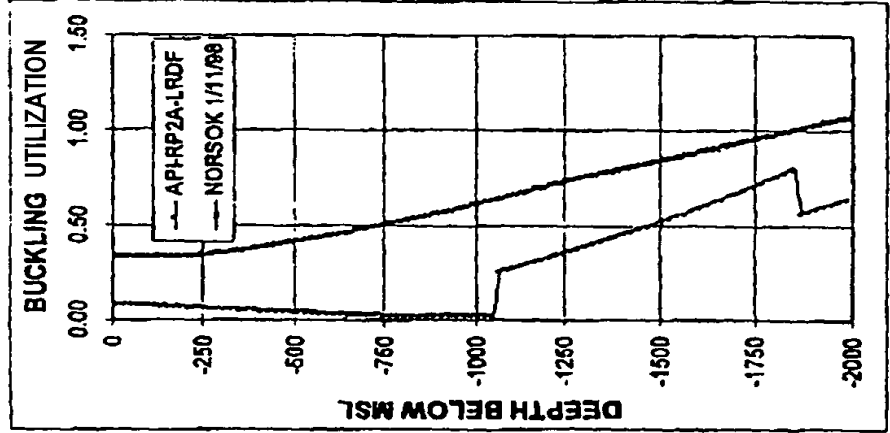


Figure 5 Tether Pipe Utilization



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## OPTIMIZATION

1. Direction of increased buoyancy
2. Direction of increased stiffness
3. Direction of increased hydrostatic capacity

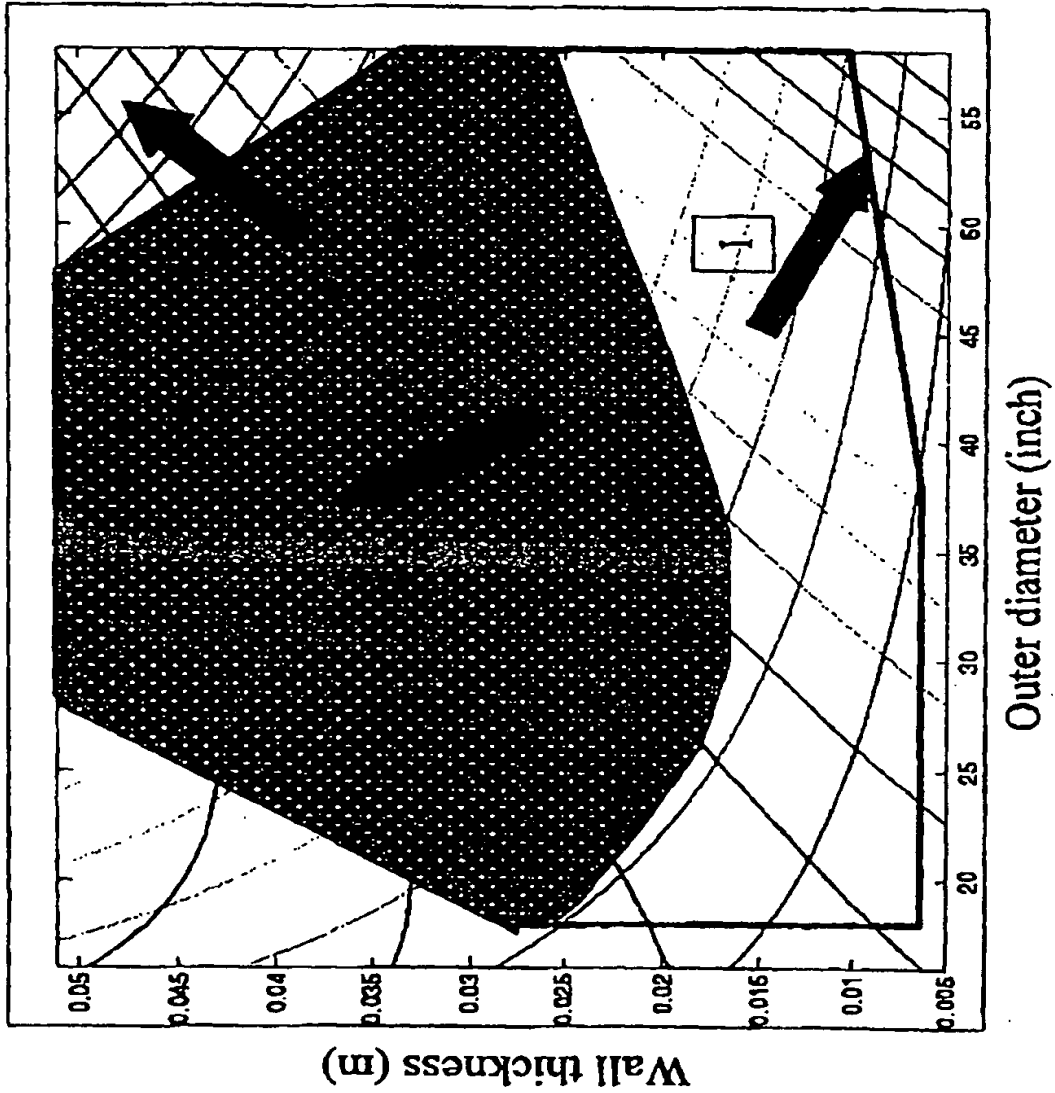


Figure 6: Optimization chart